## **AMENDMENTS TO THE CLAIMS**

This listing of the claims replaces all prior listings and versions:

1 to 65. (canceled).

- **66.** (previously presented): A library comprising a plurality of polynucleotides, each polynucleotide of the library comprising a vector and an insert, wherein each of the insert sequences consist essentially of accessible regions of cellular chromatin, wherein the library is obtained according to the method of:
- (a) contacting cellular chromatin with a probe, wherein reaction of the probe with cellular chromatin results in polynucleotide cleavage at accessible regions of cellular chromatin;
  - (b) deproteinizing the cleaved chromatin of step (a);
- (c) digesting the deproteinized chromatin of step (b) with a nuclease to generate a collection of polynucleotide fragments; and
- (d) selectively cloning polynucleotide fragments comprising one end generated by probe cleavage.
- 67. (previously presented): A library according to claim 66, wherein each insert sequence consists of an accessible region of cellular chromatin.
- **68.** (previously presented): The library of claim 66, wherein the cellular chromatin is obtained from cells at a particular stage of development.
- 69. (previously presented): The library of claim 66, wherein the cellular chromatin is obtained from cells of a particular tissue.
- **70.** (previously presented): The library of claim 66, wherein the cellular chromatin is obtained from diseased cells.

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71. (previously presented): The library of claim 66, wherein the cellular chromatin is obtained from infected cells.

72 to 124. (canceled).

- 125. (currently amended): The <u>library polynucleotide</u> of claim 66, wherein, in step (a), the probe is a nuclease.
- 126. (currently amended): The <u>library polynucleotide</u> of claim 125, wherein the nuclease is a restriction enzyme.
- 127. (currently amended): The <u>library polynucleotide</u> of claim 126, wherein the probe comprises a plurality of restriction enzymes.
- 128. (currently amended): The <u>library polynucleotide</u> of claim 66, wherein, in step (c), the nuclease is a restriction enzyme.